PLEASE ENTER AP 4/14/06

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claim 1-31

Claim 32 (new): A battery capacity calculating method for calculating a residual capacity and/or residual power of a secondary battery, comprising:

calculating an equilibrium voltage curve C_{equ} showing a relation between a discharged capacity and an equilibrium voltage in said secondary battery;

measuring a terminal voltage V_{mea} and a current value I of said secondary battery at a time of discharging;

calculating a discharged capacity Q_{mea} of said secondary battery based on the terminal voltage V_{mea} and the current value I;

calculating an apparent equilibrium voltage V_{ocv} by adding a voltage drop ΔV_{dc} by a direct current resistance R_{dc} to the terminal voltage V_{mea};

calculating an apparent discharged capacity Q_{ocv} corresponding to the apparent equilibrium voltage V_{ocv} calculated based on the equilibrium voltage curve Q_{equ};

calculating a capacity shift ΔQ being a difference between the discharged capacity Q_{mea} and the apparent discharged capacity Q_{ocv}; and

estimating a discharge curve C_{pre} in a future based on the capacity shift ΔQ calculated at said capacity shift calculating step.

Claim 33 (new): The battery capacity calculating method according to claim 32, wherein when a state of said battery is close to the last stage of discharging, a reduction rate dQ of a capacity shift to a discharged capacity is calculated based on the discharged capacity Q_{mea} and the capacity shift ΔQ, and the discharge curve C_{pre} in the future is estimated based on the capacity shift ΔQ and the reduction rate dQ.